Appendix E

ADEM Closure Assessment Report for Parcel 135(7), Former Gas Station, Building 594, at Former Waste Chemical Storage Area, Parcel 87(7), Anomaly A-1(2)

ADEM UST CLOSURE
SITE ASSESSMENT REPORT

(Use a Separate form for a group of tanks in each tank pit)

FACILITY I.D. NO.:	NA	DATE OF THIS REPORT:	8/2/00
INCIDENT NO. (If applicable).	UST __ __ - __ __ - __ __	UST OWNER:	U.S. Army
FACILITY COUNTY:	Calhoun	ADDRESS:	Ft. McClellan Anniston, AL
FACILITY NAME:	Parcel 135	CONTACT NAME:	
LOCATION:	A-1(2)	CONTACT PHONE #:	
ADDRESS:	Ft. McClellan Anniston, AL		

NAME OF CONTRACTOR USED TO CLOSE (REMOVE)	IT Corporation
NAME OF CONSULTANT CONDUCTING ASSESSMENT:	IT Corporation
NAME OF LABORATORY USED:	Severn Trent Laboratories

PRIOR TO BEGINNING CLOSURE, THE CONTRACTOR SHOULD BECOME FAMILIAR WITH ALL CLOSURE PROCEDURES IN AMERICAN PETROLEUM INSTITUTE (API) BULLETIN 1604, "REMOVAL AND DISPOSAL OF USED UNDERGROUND PETROLEUM STORAGE TANKS" AND API BULLETIN 2015 "CLEANING PETROLEUM STORAGE TANKS". THESE API BULLETINS ARE AVAILABLE FROM THE AMERICAN PETROLEUM INSTITUTE.

NUMBER OF TANKS CLOSED:	**NONE (none present)(previously removed; no record)**
NUMBER OF TANKS REMAINING AT SITE:	**NONE**
CLOSURE DATE:	**8/4/00**

UNIQUE TANK #:	**UNK**				
TANK SIZE:	**UNK**				
TANK CAPACITY:	**10,000 gal**				
TANK AGE:	**UNK**				
DATE TANK LAST USED:	**UNK**				
SUBSTANCE STORED:	**Gasoline**				
TYPE OF PRODUCT PIPING:	**STEEL**				
(Pressurized/Suction)	**UNK**				
FARM TANK:	☐	☐	☐	☐	☐
HEATING OIL TANK:	☐	☐	☐	☐	☐

1. COMPLETE THE FOLLOWING SECTION FOR ALL CLOSURES:

a. Provide the results of a 500 ft. survey for domestic water supply wells in the following table and place their locations on the attached site map:

Name of Owner of Domestic Water Supply Well	Distance from UST Site	Depth of Well	Status: Active or Inactive?
NONE	NA	NA	NA

b. Provide the results of a 1,000 ft. survey for public water supply wells in the following table and place their locations on the attached site map:

Name of Owner of Public Water Supply Well	Distance from UST Site	Depth of Well	Status: Active or Inactive?
NONE	NA	NA	NA

c. Is the UST site located in a delineated wellhead protection or source water area?

YES ☐ NO ☒

d. Are there any public water supply surface water intakes within 500 ft. of the UST site?

YES ☐ NO ☒

If yes, locate the intake on the attached site map.

NOTE: If an active domestic water supply well or an active public water supply well is located within 500 ft. or 1,000 ft. respectively of the UST site, or if the answer to 1c. or 1d. is Yes, the Department may require groundwater sampling to occur at the UST site. If the groundwater sampling is not performed by the owner/operator during the closure site assessment, the Department may require that groundwater sampling occur as part of a Preliminary Investigation.

Groundwater sampling remains a requirement of the closure site assessment when shallow groundwater is present or when performing an in-place closure site assessment.

e. Indicate the current on-site land use and the most likely future land use:

Current On-Site Land Use			Most Likely Future On-Site Land Use	
Residential	☐		Residential	☐
Commercial	☐		Commercial	☐
Other	☒		Other	☒
Describe: Military Installation (being closed)			Describe: Passive Recreational	

f. Describe the current off-site land use within 500 ft of the UST site. State whether the area, in general, is residential, commercial, mixed residential/commercial or other:

North:	Commercial type and unimproved land associated with the military installation

	Northeast:	
	Northwest:	
South:	Commercial type and unimproved land associated with the military installation	
	Southeast:	
	Southwest:	
West:	Commercial type and unimproved land associated with the military installation	
East:	Commercial type and unimproved land associated with the military installation	

COMPLETE THE FOLLOWING SECTIONS AS APPROPRIATE BASED ON THE TYPE OF CLOSURE CONDUCTED:

2. TANK CLOSURE BY REMOVAL: Tanks previously removed, not found during investigative dig based on geophysical information.

a. Attach a topographic map showing the location of the facility and a general site map showing the area surrounding the UST site.

b. Attach plan and sectional views of the excavation and include the following:

1. All appropriate excavation dimensions.
2. All soil sample locations and depths using an appropriate method of identification.
3. Location of areas of visible contamination.
4. Former location of tank(s), including depth, with tank Identification Number.

	YES	NO
c. Is the groundwater more than 5 feet below the bottom of the excavation?	☒	☐

If no, provide the depth from the ground surface to the groundwater table. Feet: _____

Indicate method used to determine water table depth:	YES	NO
1. Excavation extended 5 feet below base of pit:	☒	☐
2. Boring or monitoring well:	☐	☐
3. Topographic features (Method must be approved by ADEM prior to use):	☐	☐

	YES	NO
d. Was there a notable odor found in the excavation?	☐	☒

If yes,

(1) The odor strength was (mild) (strong) (other) describe: _____

(2) The odor indicates what type of product: (gasoline)(diesel) (waste oil) (kerosene) (other) describe: _____

	YES	NO
e. Was there water in the excavation?	☒	☐

If yes, how was it handled?	YES	NO
1. One time discharge to sanitary sewer with local approval?	☐	☐
2. Hauled to facility capable of treating constituents of petroleum products in water?	☐	☐
3. Hauled to local POTW with local approval?	☐	☐
4. Treated on-site with NPDES approved discharge?	☐	☐
5. Other? Explain: Left in excavation; no tank present; excavation used as over-dig for pipe trench closure.		

	YES	NO
f. Was free product found in the excavation?	☐	☒

If yes,

1. How was free product handled? Describe: _____
2. What was the measured thickness of free product? _____

g. Were visible holes noted in the tank(s)? YES ☐ NO NA

If yes,
Indicate which tanks(s) by the Unique Tank Number: _____

Also, describe the location(s) and provide general description as to the size and number of holes for above noted tanks, (Example: 3 square feet of pinholes or 3 inch diameter hole):
No tank found. Anomaly investigated (suspected as potential UST) was determined to be A metal tie-down strap attached to "dead man" (presumed to contain rebar). PID reading for exploratory excavated soils were noted as 0.0 ppm.

h. Describe the soil type and thickness of all soil layers encountered in the excavation:
Brownish-red silty, gravelly, clayey SAND (backfill). Excavation dimensions approx. 4' wide X 7.5' deep X 8' long to expose anomaly and determine depth to water table.

i. Was the excavation backfilled? YES ☒ NO ☐

If yes, provide the date of backfilling: 8/3/00. Due to no visual or PID indications or tanks.

DO NOT BACKFILL WITH MATERIAL THAT HAS OR POTENTIALLY HAS A TPH OF GREATER THAN 100 PPM!

3. TANK CLOSURE WITHOUT REMOVAL(CLOSED IN-PLACE): N/A

a. Attach a topographic map showing the location of the facility and a general site map showing the area surrounding the UST site.

b. Attach plan and sectional views of the site and include the following:

1. Location of the tank(s) including depth,
2. Location of tank(s) with respect to other tanks, if applicable,
3. Soil boring locations and depths at which soil samples were taken,
4. Boring logs.

c. Attach groundwater sampling data, if required based on depth to groundwater.

d. Is the groundwater more than 5 feet below the bottom of the tank? YES ☐ NO ☐

Provide the depth from the ground surface to the groundwater table. Feet: _____

Refer to Closure Site Assessment Guidance (page 11) for further details regarding requirements for determining groundwater elevation.

e. Was there a notable odor found in the bore holes? YES ☐ NO ☐

If yes,
(1) The odor strength was (mild) (strong) (other) describe: _____

(2) The odor indicates what type of product: (gasoline) (diesel) (waste oil) (kerosene) (other) describe: _____

	YES	NO
f. Was free product found in the bore holes?	☐	☐

If yes,
1. How was free product handled? Describe: _____

2. What was the measured thickness of free product? _____

g. Describe the soil type and thickness of all soil layers encountered in the bore holes and provide boring logs:

_____

_____

_____

h. Specify the inert solid material used to fill the tank(s):

_____

_____

i. Provide the date the tank(s) were filled: _____

	YES	NO
j. Were the bore holes properly sealed with bentonite/soil?	☐	☐

If yes, provide the date: _____

4. PRODUCT PIPING CLOSURE BY REMOVAL:

a. Attach a topographic map showing the location of the facility and a general site map showing the area surrounding the UST site.

b. If the piping was longer than 10 feet, attach plan and sectional views of the piping trench and include the following:

1. All appropriate excavation dimensions and length of piping,
2. All soil sample locations and depths using an appropriate method of identification.
3. Location of areas of visible contamination.

	YES	NO
c. Was the piping purged of product prior to closure?	☐	☒
If yes, was the product properly disposed of?	☐	☐

	YES	NO
d. Is the groundwater more than 5 feet below the bottom of the piping trench?	☒	☐

If no, provide the depth from the ground surface to the groundwater table. Feet: _____

Indicate method used to determine water table depth:	YES	NO
1. Excavation extended 5 feet below base of trench:	☒	☐
2. Boring or monitoring well:	☐	☐
3. Topographic features (Method must be approved by ADEM prior to use):	☐	☐

	YES	NO
e. Was there a notable odor found in the piping trench?	☐	☒

If yes,

(1) The odor strength was (mild) (strong) (other) describe: _____

(2) The odor indicates what type of product: (gasoline) (diesel) (waste oil) (kerosene) (other) describe: _____

	YES	NO
f. Was there water in the piping trench?	☐	☒

If yes, how was it handled?	YES	NO
1. One time discharge to sanitary sewer with local approval?	☐	☐
2. Hauled to facility capable of treating constituents of petroleum products in water?	☐	☐
3. Hauled to local POTW with local approval?	☐	☐
4. Treated on-site with NPDES approved discharge?	☐	☐
5. Other? Explain:		

_____

_____

_____

	YES	NO
g. Was free product found in the piping trench?	☐	☒

If yes,

1. How was free product handled? Describe: _____

2. What was the measured thickness of free product? _____

	YES	NO
h. Were visible holes noted in the piping?	☒	☐

If yes, indicate the location(s) and provide a general description as to the size and number of holes:
Two 2"-diameter, 3' long pipes extending west from pad; not capped (hole).
Two 2"-diameter, 3' long pipes extending east from pad; not capped (hole).

i. Describe the soil type and thickness of all soil layers encountered in the piping trench:
Brownish-red silty, gravelly, SAND (backfill)
Two excavations, each approx. 3' wide X 2' deep X 5' long to expose entire length of pipe in both areas.
Excavated material in both were stockpiled together and sampled as such.

j. Was the piping trench backfilled? YES ☒ NO ☐

If yes, provide the date of backfilling: 8/3/00 due to no visual or PID indications and lab results <100 ppm.

DO NOT BACKFILL WITH MATERIAL THAT HAS OR POTENTIALLY HAS A TPH OF GREATER THAN 100 PPM!

5. PRODUCT PIPING CLOSURE WITHOUT REMOVAL (CLOSED IN-PLACE): N/A

a. Attach a topographic map showing the location of the facility and a general site map showing the area surrounding the UST site.

b. Attach plan and sectional views of the site and include the following:

1. Location of the piping including depth,
2. Location of piping with respect to tank(s), if applicable.
3. Soil boring locations and depth at which soil samples were taken,
4. Boring logs.

c. Attach groundwater sampling data, if required based on depth to groundwater.
Refer to Closure Site Assessment Guidance for further details regarding requirements for groundwater sampling.

d. Was the piping purged of product prior to closure? YES ☐ NO ☐
If yes, was product properly disposed of? ☐ ☐

e. Was the piping capped? YES ☐ NO ☐

f. Is the groundwater more than 5 feet below the bottom of the excavation? YES ☐ NO ☐

Provide the depth from the ground surface to the groundwater table. Feet: _____

Refer to Closure Site Assessment Guidance (page 11) for further details regarding requirements for determining groundwater elevation.

g. Was there a notable odor found in the bore holes? YES ☐ NO ☐

If yes,
(1) The odor strength was (mild) (strong) (other) describe: _____

(2) The odor indicates what type of product: (gasoline) (diesel) (waste oil) (kerosene) (other) describe: _____

h. Was free product found in the bore holes? YES ☐ NO ☐

If yes,

1. How was free product handled? Describe: _____

2. What was the measured thickness of free product? _____

i. Describe the soil type and thickness of all soil layers encountered in the bore holes and provide boring logs:

_____

_____

_____

_____

j. Were the bore holes properly sealed with bentonite/soil? YES ☐ NO ☐

If yes, provide the date: _____

6. GROUNDWATER SAMPLING (If required by attached closure guidelines): N/A

a. Indicate the following on the plan and section views required by Section 2.b., 3.b, 4.b, or 5.b. above:

1. The location and depth of the 1 up-gradient and 3 down-gradient borings or monitoring wells. (Monitoring wells in lieu of borings are not required, but may be desirable in certain situations.)

2. The most probable direction of groundwater flow. State basis for determining direction:

_____

_____

_____

b. Was a monitoring well used? YES ☐ NO ☐

If yes, attach a schematic drawing of the well(s) and all boring logs.

c. **SUMMARY OF GROUNDWATER SAMPLING RESULTS: N/A**

Date of Sampling: _____

Boring or MW #:							
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Benzene							
Ethylbenzene							
Toluene							
Xylenes							
MTBE							
Anthracene							
Benzo(a)anthracene							
Benzo(a)pyrene							
Benzo(b) fluoranthene							
Benzo(k)fluoranthene							
Benzo(g,h,i)perylene							
Chrysene							
Fluoranthene							
Fluorene							
Naphthalene							
Phenanthrene							
Pyrene							
Lead							

Note: Attach additional tables as needed based on number of groundwater samples or variations in sampling dates.

d. Attach the original chain of custody record (**copies are not acceptable**) and the original laboratory data sheet (**copies are not acceptable**) for each sample.

7. SUMMARY OF SOIL ANALYTICAL DATA

a. Provide the analytical data obtained from the site in the following tables:

TANK PIT SAMPLES: N/A

Date of Sampling: _____

Sample #:							
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH OPTION:							
TPH							
Lead							
COC OPTION:							
Benzene							
Ethylbenzene							
Toluene							
Xylenes							
MTBE							
Anthracene							
Benzo(a)anthracene							
Benzo(a)pyrene							
Benzo(b) fluoranthene							
Benzo(k)fluoranthene							
Benzo(g,h,i)perylene							
Chrysene							
Fluoranthene							
Fluorene							
Naphthalene							
Phenanthrene							
Pyrene							
Lead							

Note: Attach additional tables as needed based on number of soil samples or variations in sampling dates.

PIPING & DISPENSER SAMPLES:

Date of Sampling: **7/26/00**

Sample #:	LH0008	LH0009					
	east end of pad	west end of					
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH OPTION:							
TPH							
Lead							
COC OPTION:							
Benzene	ND	ND					
Ethylbenzene	ND	ND					
Toluene	ND	ND					
Xylenes	ND	ND					
MTBE							
Acenaphthene	ND	ND					
Acenaphthylene	ND	ND					
Anthracene	ND	ND					
Benzo(a)anthracene	0.0065	0.072					
Benzo(a)pyrene	0.036	0.21					
Benzo(b) fluoranthene	0.018	0.13					
Benzo(k)fluoranthene	0.01	0.11					
Benzo(g,h,i)perylene	0.03	0.17					
Chrysene	0.016	0.13					
Dibenz(a,h)anthracene	.026	0.02J					
Fluoranthene	0.022	0.24					
Fluorene	ND	ND					
Indeno(1,2,3-cd)pyrene	ND	0.15					
Naphthalene	ND	ND					
Phenanthrene	ND	0.071J					
Pyrene	0.014	0.15					
Lead	12.3	49.1					

J – Estimated Result. Result is less than reporting limit.
ND – Analyte not detected above the method detection limit.

Note: Attach additional tables as needed based on number of soil samples or variations in sampling dates.

b. Attach the original chain of custody record (**copies are not acceptable**) and the original laboratory data sheet (**copies are not acceptable**) for each sample.

8. EXCAVATED SOIL

ALL EXCAVATED SOIL REQUIRES ANALYSIS PRIOR TO DISPOSAL. TANK CLOSURE SAMPLES FROM THE EXCAVATION MAY NOT BE REPRESENTATIVE OF THE LEVEL OF CONTAMINATION IN THE EXCAVATED SOIL.

For safety and other considerations, it is recommended that open pits and piping trenches should be backfilled as soon as possible with **clean backfill. Soils which have TPH levels greater than 100 ppm or soils for which the level of contamination has not been determined shall not be returned to the excavation pit(s) or piping trenches.**

a. If **piping** was closed by removal, provide an estimate of the volume of soil removed: 2 cubic yds

b. Provide a summary of analytical results for the excavated soil:

Date of Sampling: **7/26/00**

Sample #	TPH Results mg/kg	Lead Results (If applicable) mg/kg
LH8001	65	5.3

Note: Attach additional tables as needed based on number of soil sample or variations in sampling dates.

c. Attach the original chain of custody record (**copies are not acceptable**) and the original laboratory data sheet (**copies are not acceptable**) for each sample.

d. Attach the "Total Potential VOC Emissions Calculations" for soil removed.

e. Indicate current method and location of soil management and/or treatment prior to final disposal:

f. Check the method of soil disposal used or to be used:

- ☒ Return to the excavation pit only when TPH is less than or equal to 100 ppm and depth of groundwater is greater than 5 feet from the base of the pit.
- ☐ Spread in a thin layer (6" or less) on site only when TPH is less than or equal to 100 ppm
- ☐ Disposal in a landfill (See attached "Guidelines for the Disposal of Non-Hazardous Petroleum Contaminated Wastes").
- ☐ Incineration.
- ☐ Thermal volatilization.
- ☐ Recycling facility
- ☐ Other _____

g. If soil was disposed of prior to the submittal of this form, indicate the final destination below and attach copies of invoices, receipts, and "certificate of burn" (if soil was incinerated):

9. TANK CLEANING: N/A

	YES	NO
a. The tank(s) were cleaned in accordance with American Petroleum Institute (API) Bulletin 2015 "Cleaning Petroleum Storage Tanks"?	☐	NA

If no, describe how tank(s) were cleaned:
No tanks were identified during investigative dig.

b. Provide an estimate of the volume of sludge removed from the tank: NA Gallons

c. Indicate the final destination of the sludge and attach invoices or receipts:

10. ATTACHMENTS

Attach the following to the closure form in the following order as applicable to the type of closure site assessment performed. Check each box to indicate that a particular map or information is attached to the closure site assessment form. The section of the closure site assessment form that indicates the required attachment is shown.

☒	Topographic Map showing location of site (Section 2.a., 3.a., 4.a., & 5.a.)	
☒	Area map showing general location of the site. Include land use on-site and within 500' of site. (Section 1)	
	☐	Include locations of domestic and public water supply wells, and surface water intakes (Section 1)
☒	Plan and sectional views of the site including the following: (Section 2.b., 3.b., 4.b., & 5.b.)	
	☐	Location of the closed tanks and piping including depth. Include any remaining tanks or piping at site. Include tank identification numbers.
	☐	Excavation dimensions of the tank system
	☒	Locations of soil samples taken for piping and tank which includes the analytical results.
	☐	Location of areas of visible contamination
	☐	Location of any stockpiled excavated soil
	☐	Location of soil borings for an in-place closure
☐	The location and depth of the one up-gradient and 3 down-gradient borings or monitoring wells (Section 6.a.)	
☐	Map illustrating the most probable direction of groundwater flow (Section 6.a.)	
☐	Schematic diagrams of the monitoring wells installed (Section 6.b.)	
☐	Boring logs of soil borings (Section 3.b., 5.b. &6.b.)	
☐	Site Classification Checklist	
☐	**Invoices and/or receipts for sludge disposal (Section 9.c.)**	
☐	Invoices, manifests and certificates of burn or disposal for soil disposal (Section 8.f.)	

☒	Attach the **original** chain of custody record (copies are not acceptable) for each sample which includes at least the following: (Sections 6.d., 7.b., & 8.c.)	
	☒	Sample identification number,
	☒	Date and time sample was taken,
	☒	Name and title of person collecting sample (see certification requirement on page 15 of this form),
	☒	Type of sample (soil or water),
	☒	Type of sample container,
	☒	Method of preservation,
	☒	Date and time sample was relinquished,
	☒	Person relinquishing sample,
	☒	Date and time sample was received by lab,
	☒	Person receiving sample at lab.

☒	Attach the **original** laboratory data sheet (**copies are not acceptable**) which includes at least the following: (Sections 6.d., 7.b., & 8.c.)	
	☒	A sample identification number which can be cross referenced with the soil sample locations indicated on the plan and sectional views required by Section 2.b., 3.b., 4.b., or 5.b. above
	☒	The sample analytical results with appropriate units,
	☒	The method used to analyze each sample,
	☒	The date and time the sample was analyzed,
	☒	The person analyzing the sample.

11. SIGNATURES

This form should be completed, signed, and returned, along with any other pertinent information, to the following address:

The Alabama Department of Environmental Management
Groundwater Branch
Post Office Box 301463
Montgomery, AL 36130-1463
(334) 270-5655

INCOMPLETE FORMS WILL BE RETURNED FOR CORRECTION.

Name of person taking soil and/or groundwater samples: James R. Messer

Company: IT Corporation

Telephone Number: 256-848-3499

I certify under penalty of law that I have obtained representative soil and/or groundwater samples using accepted sampling procedures.

Signature: _____ Date: _____

Either a Geologist or an Alabama Registered Professional Engineer must sign this form:

I certify under penalty of law that I have performed this closure site assessment in accordance with accepted soil and groundwater investigation practices; I am either a Geologist or an Alabama Registered Professional Engineer; I am experienced in soil and groundwater investigations; and the information I have submitted, to the best of my knowledge and belief, is true, accurate, and complete.

Signature of Geologist: _____ Date: _____

Signature of Alabama Registered Professional Engineer: David B. Tester, P.E. Date: 10/9/01

Alabama P.E. Registration Number: 23633

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Signature of Tank Owner: _____ Date: _____

FOR ADEM USE ONLY:

Reviewed By: _____ Date: _____

COMMENTS:

FORM 1133
11/05/97

FOR ADEM OFFICE USE ONLY	
TO: Air Division	FROM: UST Compliance Section

ADEM UST CLOSURE
TOTAL POTENTIAL VOC EMISSIONS CALCULATIONS

FACILITY I.D. NO.: NA

DATE OF THIS REPORT: 8/30/00

INCIDENT NO. (If applicable). UST __ __ - __ __ - __ __

UST OWNER: U.S. Army

FACILITY COUNTY: Calhoun

ADDRESS: Ft. McClellan, Anniston, AL

FACILITY NAME: Parcel 135

CONTACT NAME:

LOCATION: A-1(2)

CONTACT PHONE #:

ADDRESS: Ft. McClellan, Anniston, AL

Name of Consultant who performed calculations: James R. Messer

Consultant's Phone Number: 256-848-3499

	a	ppm x	b	cyds x .002 =	c	lbs. VOC emissions
Sample 1	65	ppm x	2	cyds x .002 =	0.26	lbs. VOC emissions
Sample 2		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 3		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 4		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 5		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 6		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 7		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 8		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 9		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 10		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 11		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 12		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 13		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 14		ppm x		cyds x .002 =		lbs. VOC emissions
Sample 15		ppm x		cyds x .002 =		lbs. VOC emissions

TOTAL POTENTIAL EMISSIONS = 0.26 lbs. VOC emissions

*** NOTE - If more samples are taken than indicated on this form, please attach additional pages as necessary.**

This form must be completed and submitted with the ADEM UST Closure Site Assessment Report Form.

FIGURES

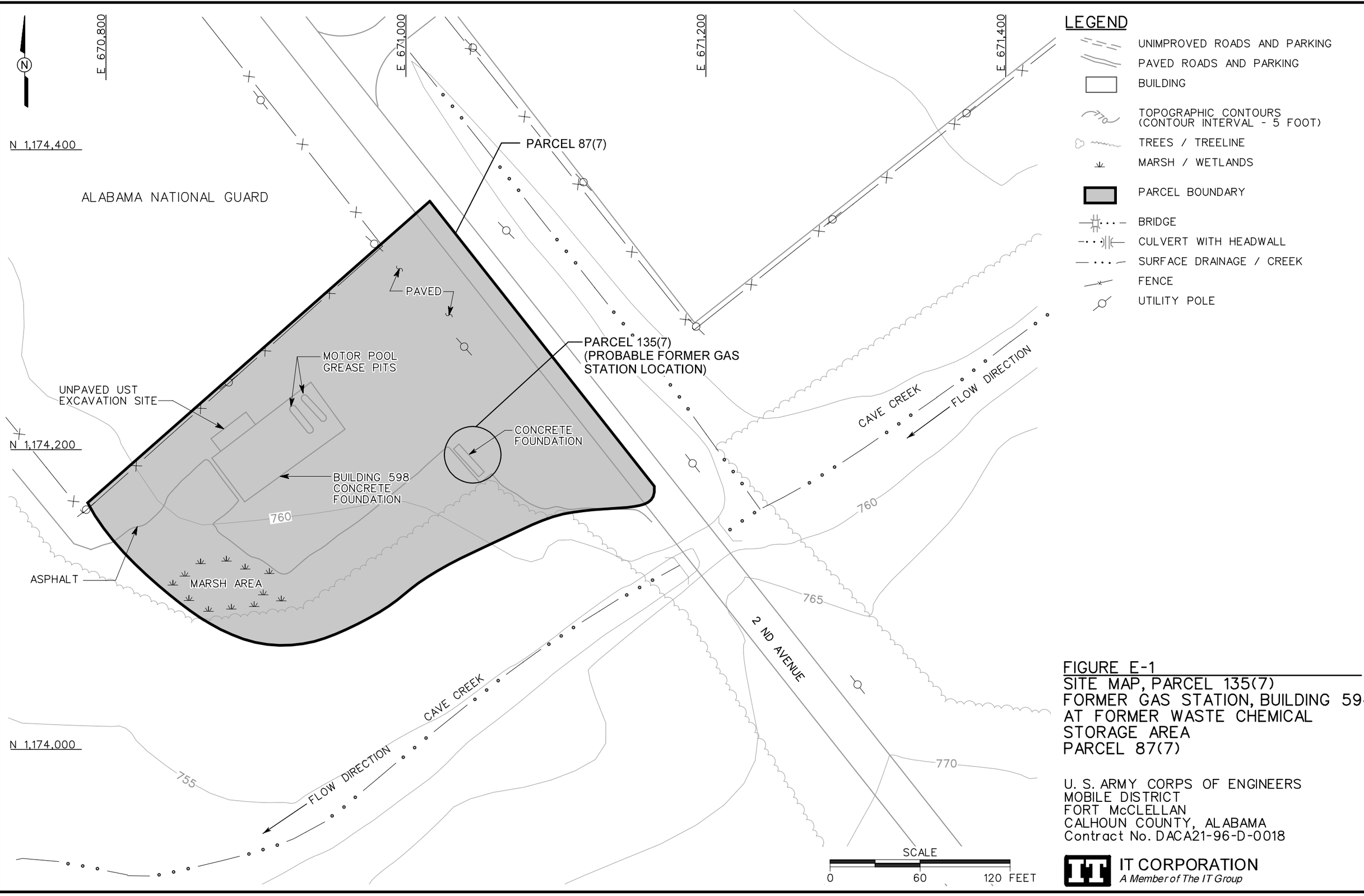


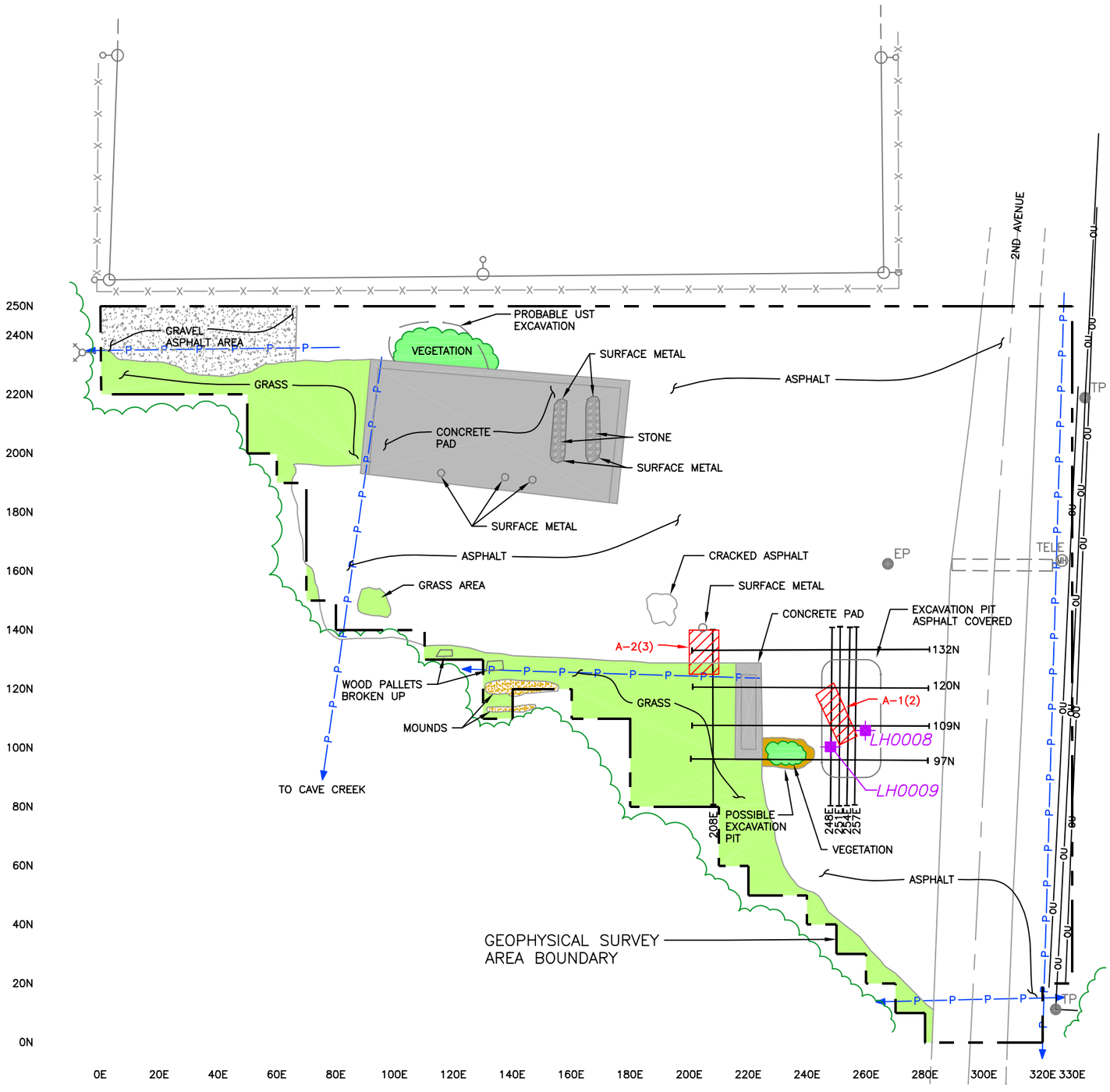
FIGURE E-1
SITE MAP, PARCEL 135(7)
FORMER GAS STATION, BUILDING 594
AT FORMER WASTE CHEMICAL
STORAGE AREA
PARCEL 87(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

IT CORPORATION
A Member of The IT Group

DBILLING
c:\cadd\design\783149es.165
02/08/01 09:16:58
STARTING DATE: 02/08/01
DRAWN BY: D. BOMAR
INITIATOR: J. BOND
PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY:
ENGR. CHCK. BY: J. JENKINS
DATE LAST REV.:
DRAWN BY:
DWG. NO.: ...\783149es.165
PROJ. NO.: 783149

DRAWN BY		CHECKED BY		DRAWING NUMBER
	MSN		CG	783149–166.DWG
	02/13/01	APPROVED BY		



LEGEND

- GEOPHYSICAL ANOMALY (A–1(2))
- TELEPHONE POLE (TP)
- ELECTRICAL POLE (EP)
- LIGHT POLE
- MANHOLE (TELEPHONE) (TELE)
- FIRE HYDRANT
- OVERHEAD UTILITIES (OU)
- FENCE
- PIPES (P)
- GPR PROFILES PRESENTED (120N)
- VEGETATION
- STONE
- N 1,174,368 E 671,033 — ALABAMA EAST STATE PLANE COORDINATES (NAD83)
- SOIL SAMPLE LOCATION

NOTE: 1) LOCATIONS OF FEATURES OUTSIDE SURVEY AREA ARE APPROXIMATE

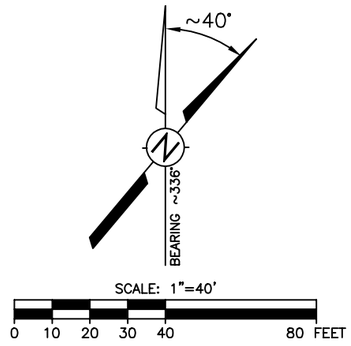


FIGURE E–2
SITE MAP WITH SAMPLE LOCATIONS AND GEOPHYSICAL INTERPRETATION
PARCEL 135(7), FORMER GAS STATION, BUILDING 594, AT FORMER WASTE CHEMICAL STORAGE AREA, PARCEL 87(7)

U.S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21–96–D–0018

IT CORPORATION
A Member of The IT Group

UST INVESTIGATION PHOTOGRAPHS

Photo 1: Anomaly A-1(2). Pre-dig conditions. Facing south.

Photo 2: Anomaly A-1(2). Metal tie-down strap (likely source of anomaly).

Photo 3: Anomaly A-1(2). Piping from southeast corner of pad leading to old tank pit.

Photo 4: Anomaly A-1(2). Tank top impressions in soil. Note that tanks are no longer present.

ANALYTICAL RESULTS

SEVERN TRENT
Environmental Services

Sample Delivery Group Assignment Form

IT CORPORATION
FT McCLELLAN
UST 135

SDG# UST13501

*	DATE REC'D	LOT#	CLIENT ID	VOA	PAH	PEST	EXP	MET	PCB	PH	DRO	GRO	PAINT
				8021B	8310	8081A	8330	6010B	8082	9045	8015	8015	FILTER
1	7/26/00	H0G270112	LH0008	T	T			X					
2			LH0009	T	T			X					
3			LH8001					X			T	T	T
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

NC = NORTH CANTON
T = STL TAMPA
D= STL DENVER
WS = STL WEST SACRAMENTO
P = PITTSBURGH
IT = IT CORP KNOX

MATRIX: SOIL
ANALYTICAL DUE: 7-31-00
REPORT DUE: 8-7-00
CLOSED? YES

8/11/008:04 AM

HOG710112

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 135-072600-QSK

Project Number: 783149
Project Name: Fort McClellan, SAD TERC
Sample Coordinator: Oliver Allen
Turnaround Time: ~~X~~ 48 hour Turn

Samples Shipment Date: 26 JUL 2000
Lab Destination: Quanterra Environmental Services - Knoxville
Lab Contact: John Reynolds
Project Contact: Randy McBride
Carrier/Waybill No.: Quality Express/Courier

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions: 48 Hour Turnaround

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☑

Sample Disposal:
Return to Client ☐ Disposal by Lab ☑ Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 7-26-00 Time: 1330	1. Received By (Signature/Affiliation) [signature] Date: 7-26-00 Time: 13:30
2. Relinquished By (Signature/Affiliation) [signature] Date: 7-26-00 Time: 18:20	2. Received By (Signature/Affiliation) [signature] Date: 7-26-00 Time: 18:20
3. Relinquished By (Signature/Affiliation) Date: Time:	3. Received By (Signature/Affiliation) Date: Time:

Comments: None

Recd Temp 2°C
DF 12 no Custody seals intact

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
LH0008	UST-135A1-CS06-CS-LH0008-REG	26 JUL 2000	09:00	8 oz CWM	1	None except cool to 4 C	Lead by 6010B	N		
LH0009	UST-135A1-CS07-CS-LH0009-REG	26 JUL 2000	08:45	8 oz CWM	1	None except cool to 4 C	Lead by 6010B	N		
LH8001	UST-135A1-SP01-SP-LH8001-REG	26 JUL 2000	08:30	8 oz CWM	1	None except cool to 4 C	Lead by 6010B	N		

HOG770112

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 135-072600-QST

Project Number: 783149
Project Name: Fort McClellan, SAD TERC
Sample Coordinator: Oliver Allen
Turnaround Time: 48 hour Turn

Samples Shipment Date: 26 JUL 2000
Lab Destination: QUANTERRA - TAMPA
Lab Contact: Michelle Lersch
Project Contact: Randy McBride
Carrier/Waybill No.: FedEx/790866391164

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions: 48 hour turnaround

Possible Hazard Indentification:	Sample Disposal:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☑	Return to Client ☐ Disposal by Lab ☑ Archive (mos.)
1. Relinquished By (Signature/Affiliation) D.K.Allen Date: 7-26-00 Time: 1530	1. Received By (Signature/Affiliation) Date: Time:
2. Relinquished By (Signature/Affiliation) Date: Time:	2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:	3. Received By (Signature/Affiliation) Date: Time:

Comments: None

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
LH0008	UST-135A1-CS06-CS-LH0008-REG	26 JUL 2000	09:00	8 oz CWM	1	None except cool to 4 C	PAH's by 8310	N		
LH0008	UST-135A1-CS06-CS-LH0008-REG	26 JUL 2000	09:00	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N		
LH0009	UST-135A1-CS07-CS-LH0009-REG	26 JUL 2000	08:45	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N		
LH0009	UST-135A1-CS07-CS-LH0009-REG	26 JUL 2000	08:45	8 oz CWM	1	None except cool to 4 C	PAH's by 8310	N		
LH8001	UST-135A1-SP01-SP-LH8001-REG	26 JUL 2000	08:30	8 oz CWM	1	None except cool to 4 C	Deisel Range Organics by 8015B	N		
LH8001	UST-135A1-SP01-SP-LH8001-REG	26 JUL 2000	08:30	5 g EnCore	1	None except cool to 4 C	Gasoline Range Organics by 8015B	N		
LH8001	UST-135A1-SP01-SP-LH8001-REG	26 JUL 2000	08:30	8 oz CWM	1	None except cool to 4 C	Paint Filter	N		

H0G270112 / UST13501 Analytical Report 1
Sample Receipt Documentation 32
Invoice 39
Total # of Pages 39

SEVERN TRENT SERVICES

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

Tel: 865-291-3000
Fax: 865-584-4315
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 783149

FTMC

Lot #: H0G270112

Duane Nielsen

IT Corp - Ft. McClellan
312 Directors Drive
Knoxville, TN 37923

SEVERN TRENT LABORATORIES, INC.

John Reynolds
Project Manager

August 7, 2000

SAMPLE SUMMARY

H0G270112

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DGW0F	001	LH0008	07/26/00	09:00
DGW17	002	LH0009	07/26/00	08:45
DGW1D	003	LH8001	07/26/00	08:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ANALYTICAL METHODS SUMMARY

H0G270112

PARAMETER	ANALYTICAL METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B
Paint Filter Test	SW846 9095
Percent Moisture	MCAWW 160.3 MOD
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Petroleum Hydrocarbons	SW846 8015B
Volatiles by GC	SW846 8021B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE
H0G270112

The results reported herein are applicable to the samples submitted for analysis only.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Subcontract

The following analyses were performed by STL Tampa East, 5910 Breckenridge Parkway, Tampa, FL 33601: Gasoline and Diesel Range Organics (SW846 8015B), Paint Filter Test (SW846 9095), Polynuclear Aromatic Hydrocarbons (SW846 8310) and BTEX (SW846 8021B).

Quality Control

All holding times and QC criteria were met with the following exceptions:

Polynuclear Aromatic Hydrocarbons

The surrogate recovery of carbazole in sample LH0009 was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

IT CORP - FT. MCCLELLAN

Client Sample ID: LH8001

GC Semivolatiles

Lot-Sample #...:	H0G270112-003	**Work Order #...:**	DGW1D104	**Matrix.....:**	SOLID
Date Sampled...:	07/26/00	**Date Received..:**	07/26/00		
Prep Date.....:	07/27/00	**Analysis Date..:**	07/31/00		
Prep Batch #...:	0209608				
Dilution Factor:	1				
% Moisture.....:	14	**Method.....:**	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diesel Range Organics	**65**	**12**	**mg/kg**	**3.3**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetratriacontane	95	(25 - 113)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H0G270112 **Work Order #...:** DH06Q101 **Matrix.....:** SOLID
MB Lot-Sample #: B0G270000-608

Prep Date.....: 07/27/00
Analysis Date..: 07/31/00 **Prep Batch #...:** 0209608
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	ND	10	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetratriacontane	86	(25 - 113)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H0G270112 **Work Order #...:** DH06Q102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: B0G270000-608 DH06Q103-LCSD
Prep Date.....: 07/27/00 **Analysis Date..:** 07/31/00
Prep Batch #...: 0209608
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Diesel Range Organics	**59.2**	**58.3**	**mg/kg**	**99**		**SW846 8015B**
	59.2	**68.0**	**mg/kg**	**115**	**15**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetratriacontane	97	(25 - 113)
	98	(25 - 113)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H0G270112 **Work Order #...:** DH06Q102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: B0G270000-608 DH06Q103-LCSD
Prep Date.....: 07/27/00 **Analysis Date..:** 07/31/00
Prep Batch #...: 0209608
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Diesel Range Organics	**99**	**(35 - 115)**			**SW846 8015B**
	115	**(35 - 115)**	**15**	**(0-34)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetratriacontane	97	(25 - 113)
	98	(25 - 113)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

IT CORP - FT. MCCLELLAN

Client Sample ID: LH8001

GC Volatiles

Lot-Sample #...:	H0G270112-003	**Work Order #...:**	DGW1D105	**Matrix.....:**	SOLID
Date Sampled...:	07/26/00	**Date Received..:**	07/26/00		
Prep Date.....:	07/27/00	**Analysis Date..:**	07/28/00		
Prep Batch #...:	0210172				
Dilution Factor:	1				
% Moisture.....:	14	**Method.....:**	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	5.8	mg/kg	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	78	(39 - 163)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: H0G270112 **Work Order #...:** DH0JH101 **Matrix.....:** SOLID
MB Lot-Sample #: B0G280000-172

Prep Date.....: 07/27/00
Analysis Date..: 07/28/00 **Prep Batch #...:** 0210172
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	5.0	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	86	(39 - 163)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: H0G270112 **Work Order #...:** DH0JH102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: B0G280000-172 DH0JH103-LCSD
Prep Date.....: 07/27/00 **Analysis Date..:** 07/28/00
Prep Batch #...: 0210172
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Gasoline Range Organics	**20.0**	**16.5**	**mg/kg**	**82**		**SW846 8015B**
	20.0	**17.4**	**mg/kg**	**87**	**5.4**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	78	(39 - 163)
	85	(39 - 163)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: H0G270112 **Work Order #...:** DH0JH102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: B0G280000-172 DH0JH103-LCSD
Prep Date.....: 07/27/00 **Analysis Date..:** 07/28/00
Prep Batch #...: 0210172
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics	**82**	**(26 - 115)**			**SW846 8015B**
	87	**(26 - 115)**	**5.4**	**(0-25)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	78	(39 - 163)
	85	(39 - 163)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

IT CORP - FT. MCCLELLAN

Client Sample ID: LH0008

GC Volatiles

Lot-Sample #...:	H0G270112-001	**Work Order #...:**	DGW0F104	**Matrix.....:**	SOLID
Date Sampled...:	07/26/00	**Date Received..:**	07/26/00		
Prep Date.....:	07/27/00	**Analysis Date..:**	07/27/00		
Prep Batch #...:	0210168				
Dilution Factor:	1				
% Moisture.....:	8.1	**Method.....:**	SW846 8021B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	54	ug/kg	20
Ethylbenzene	ND	54	ug/kg	24
Toluene	ND	54	ug/kg	15
Xylenes (total)	ND	54	ug/kg	51

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	110	(46 - 143)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LH0009

GC Volatiles

Lot-Sample #...: H0G270112-002 **Work Order #...:** DGW17104 **Matrix.....:** SOLID
Date Sampled...: 07/26/00 **Date Received..:** 07/26/00
Prep Date.....: 07/27/00 **Analysis Date..:** 07/27/00
Prep Batch #...: 0210168
Dilution Factor: 1
% Moisture.....: 8.3 **Method.....:** SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	55	ug/kg	20
Ethylbenzene	ND	55	ug/kg	24
Toluene	ND	55	ug/kg	15
Xylenes (total)	ND	55	ug/kg	51

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	115	(46 - 143)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: H0G270112 **Work Order #...:** DH0J6101 **Matrix.....:** SOLID
MB Lot-Sample #: B0G280000-168

Prep Date.....: 07/27/00
Analysis Date..: 07/27/00 **Prep Batch #...:** 0210168
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	50	ug/kg	SW846 8021B
Ethylbenzene	ND	50	ug/kg	SW846 8021B
Toluene	ND	50	ug/kg	SW846 8021B
Xylenes (total)	ND	50	ug/kg	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	92	(46 - 143)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: H0G270112 **Work Order #...:** DH0J6102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: B0G280000-168 DH0J6103-LCSD
Prep Date.....: 07/27/00 **Analysis Date..:** 07/27/00
Prep Batch #...: 0210168
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**1000**	**890**	**ug/kg**	**89**		**SW846 8021B**
	1000	**913**	**ug/kg**	**91**	**2.5**	**SW846 8021B**
Ethylbenzene	**1000**	**958**	**ug/kg**	**96**		**SW846 8021B**
	1000	**997**	**ug/kg**	**100**	**3.9**	**SW846 8021B**
Toluene	**1000**	**955**	**ug/kg**	**95**		**SW846 8021B**
	1000	**959**	**ug/kg**	**96**	**0.45**	**SW846 8021B**
m-Xylene & p-Xylene	**2000**	**1930**	**ug/kg**	**97**		**SW846 8021B**
	2000	**2030**	**ug/kg**	**102**	**5.1**	**SW846 8021B**
o-Xylene	**1000**	**952**	**ug/kg**	**95**		**SW846 8021B**
	1000	**996**	**ug/kg**	**100**	**4.6**	**SW846 8021B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	104	(46 - 143)
	105	(46 - 143)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: H0G270112 **Work Order #...:** DH0J6102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: B0G280000-168 DH0J6103-LCSD
Prep Date.....: 07/27/00 **Analysis Date..:** 07/27/00
Prep Batch #...: 0210168
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**89**	**(62 - 128)**			**SW846 8021B**
	91	**(62 - 128)**	**2.5**	**(0-30)**	**SW846 8021B**
Ethylbenzene	**96**	**(66 - 119)**			**SW846 8021B**
	100	**(66 - 119)**	**3.9**	**(0-20)**	**SW846 8021B**
Toluene	**95**	**(73 - 123)**			**SW846 8021B**
	96	**(73 - 123)**	**0.45**	**(0-20)**	**SW846 8021B**
m-Xylene & p-Xylene	**97**	**(70 - 130)**			**SW846 8021B**
	102	**(70 - 130)**	**5.1**	**(0-20)**	**SW846 8021B**
o-Xylene	**95**	**(70 - 130)**			**SW846 8021B**
	100	**(70 - 130)**	**4.6**	**(0-20)**	**SW846 8021B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	104	(46 - 143)
	105	(46 - 143)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

IT CORP - FT. MCCLELLAN

Client Sample ID: LH0008

HPLC

Lot-Sample #...:	H0G270112-001	**Work Order #...:**	DGW0F102	**Matrix.....:**	SOLID
Date Sampled...:	07/26/00	**Date Received..:**	07/26/00		
Prep Date.....:	07/27/00	**Analysis Date..:**	08/02/00		
Prep Batch #...:	0209607				
Dilution Factor:	1				
% Moisture.....:	8.1	**Method.....:**	SW846 8310		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	54	ug/kg	5.4
Acenaphthylene	ND	54	ug/kg	7.0
Anthracene	ND	54	ug/kg	3.6
Benzo(a)anthracene	**6.5**	**5.4**	**ug/kg**	**1.1**
Benzo(a)pyrene	**36**	**5.4**	**ug/kg**	**0.91**
Benzo(b)fluoranthene	**18**	**5.4**	**ug/kg**	**0.85**
Benzo(ghi)perylene	**30**	**5.4**	**ug/kg**	**1.2**
Benzo(k)fluoranthene	**10**	**5.4**	**ug/kg**	**0.54**
Chrysene	**16**	**5.4**	**ug/kg**	**0.96**
Dibenz(a,h)anthracene	**3.5 J**	**5.4**	**ug/kg**	**0.90**
Fluoranthene	**22**	**5.4**	**ug/kg**	**0.96**
Fluorene	ND	54	ug/kg	9.9
Indeno(1,2,3-cd)pyrene	**26**	**5.4**	**ug/kg**	**0.76**
Naphthalene	ND	54	ug/kg	18
Phenanthrene	ND	54	ug/kg	10
Pyrene	**14**	**5.4**	**ug/kg**	**0.97**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Carbazole	82	(17 - 115)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORP - FT. MCCLELLAN

Client Sample ID: LH0009

HPLC

Lot-Sample #...:	H0G270112-002	**Work Order #...:**	DGW17102	**Matrix.....:**	SOLID
Date Sampled...:	07/26/00	**Date Received..:**	07/26/00		
Prep Date.....:	07/27/00	**Analysis Date..:**	08/02/00		
Prep Batch #...:	0209607				
Dilution Factor:	5				
% Moisture.....:	8.3	**Method.....:**	SW846 8310		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	270	ug/kg	27
Acenaphthylene	ND	270	ug/kg	35
Anthracene	ND	270	ug/kg	18
Benzo(a)anthracene	**72**	**27**	**ug/kg**	**5.5**
Benzo(a)pyrene	**210**	**27**	**ug/kg**	**4.6**
Benzo(b)fluoranthene	**130**	**27**	**ug/kg**	**4.3**
Benzo(ghi)perylene	**170**	**27**	**ug/kg**	**6.0**
Benzo(k)fluoranthene	**110**	**27**	**ug/kg**	**2.7**
Chrysene	**130**	**27**	**ug/kg**	**4.8**
Dibenz(a,h)anthracene	**20 J**	**27**	**ug/kg**	**4.5**
Fluoranthene	**240**	**27**	**ug/kg**	**4.8**
Fluorene	ND	270	ug/kg	50
Indeno(1,2,3-cd)pyrene	**150**	**27**	**ug/kg**	**3.8**
Naphthalene	ND	270	ug/kg	93
Phenanthrene	**71 J**	**270**	**ug/kg**	**52**
Pyrene	**150**	**27**	**ug/kg**	**4.9**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Carbazole	NC,SRD	(17 - 115)

NOTE(S):

NC The recovery and/or RPD were not calculated.

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

HPLC

Client Lot #...: H0G270112 **Work Order #...:** DH06P101 **Matrix.....:** SOLID
MB Lot-Sample #: B0G270000-607

Prep Date.....: 07/27/00
Analysis Date..: 08/01/00 **Prep Batch #...:** 0209607
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	50	ug/kg	SW846 8310
Acenaphthylene	ND	50	ug/kg	SW846 8310
Anthracene	ND	50	ug/kg	SW846 8310
Benzo(a)anthracene	ND	5.0	ug/kg	SW846 8310
Benzo(a)pyrene	ND	5.0	ug/kg	SW846 8310
Benzo(b)fluoranthene	ND	5.0	ug/kg	SW846 8310
Benzo(ghi)perylene	ND	5.0	ug/kg	SW846 8310
Benzo(k)fluoranthene	ND	5.0	ug/kg	SW846 8310
Chrysene	ND	5.0	ug/kg	SW846 8310
Dibenz(a,h)anthracene	ND	5.0	ug/kg	SW846 8310
Fluoranthene	ND	5.0	ug/kg	SW846 8310
Fluorene	ND	50	ug/kg	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg	SW846 8310
Naphthalene	ND	50	ug/kg	SW846 8310
Phenanthrene	ND	50	ug/kg	SW846 8310
Pyrene	ND	5.0	ug/kg	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Carbazole	83	(17 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: H0G270112 **Work Order #...:** DH06P102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: B0G270000-607 DH06P103-LCSD
Prep Date.....: 07/27/00 **Analysis Date..:** 08/01/00
Prep Batch #...: 0209607
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	**333**	**232**	**ug/kg**	**70**		**SW846 8310**
	333	**246**	**ug/kg**	**74**	**5.6**	**SW846 8310**
1-Methylnaphthalene	**333**	**224**	**ug/kg**	**67**		**SW846 8310**
	333	**247**	**ug/kg**	**74**	**9.6**	**SW846 8310**
Chrysene	**33.3**	**25.0**	**ug/kg**	**75**		**SW846 8310**
	33.3	**26.3**	**ug/kg**	**79**	**5.3**	**SW846 8310**
Fluorene	**333**	**232**	**ug/kg**	**70**		**SW846 8310**
	333	**248**	**ug/kg**	**74**	**6.4**	**SW846 8310**
Naphthalene	**333**	**203**	**ug/kg**	**61**		**SW846 8310**
	333	**227**	**ug/kg**	**68**	**11**	**SW846 8310**
Pyrene	**33.3**	**24.8**	**ug/kg**	**74**		**SW846 8310**
	33.3	**26.1**	**ug/kg**	**78**	**5.0**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Carbazole	84	(17 - 115)
	87	(17 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H0G270112 **Work Order #...:** DH06P102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: B0G270000-607 DH06P103-LCSD
Prep Date.....: 07/27/00 **Analysis Date..:** 08/01/00
Prep Batch #...: 0209607
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**70**	**(41 - 115)**			**SW846 8310**
	74	**(41 - 115)**	**5.6**	**(0-30)**	**SW846 8310**
1-Methylnaphthalene	**67**	**(45 - 115)**			**SW846 8310**
	74	**(45 - 115)**	**9.6**	**(0-27)**	**SW846 8310**
Chrysene	**75**	**(45 - 115)**			**SW846 8310**
	79	**(45 - 115)**	**5.3**	**(0-27)**	**SW846 8310**
Fluorene	**70**	**(42 - 115)**			**SW846 8310**
	74	**(42 - 115)**	**6.4**	**(0-28)**	**SW846 8310**
Naphthalene	**61**	**(28 - 116)**			**SW846 8310**
	68	**(28 - 116)**	**11**	**(0-26)**	**SW846 8310**
Pyrene	**74**	**(46 - 115)**			**SW846 8310**
	78	**(46 - 115)**	**5.0**	**(0-50)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Carbazole	84	(17 - 115)
	87	(17 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

IT CORP - FT. MCCLELLAN

Client Sample ID: LH0008

TOTAL Metals

Lot-Sample #...: H0G270112-001 Matrix.....: SOLID
Date Sampled...: 07/26/00 Date Received..: 07/26/00
% Moisture.....: 8.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0210131						
Lead	12.3	0.33	mg/kg	SW846 6010B	07/28/00	DGW0F103
		Dilution Factor: 1		Analysis Time..: 16:34	MDL.....: 0.13	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LH0009

TOTAL Metals

Lot-Sample #...: H0G270112-002 Matrix.....: SOLID
Date Sampled...: 07/26/00 Date Received..: 07/26/00
% Moisture.....: 8.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0210131						
Lead	49.1	0.33	mg/kg	SW846 6010B	07/28/00	DGW17103
		Dilution Factor: 1		Analysis Time..: 16:39	MDL.....: 0.13	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LH8001

TOTAL Metals

Lot-Sample #...: H0G270112-003 Matrix.....: SOLID
Date Sampled...: 07/26/00 Date Received..: 07/26/00
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0210131						
Lead	5.3	0.35	mg/kg	SW846 6010B	07/28/00	DGW1D102
		Dilution Factor: 1		Analysis Time..: 16:44	MDL.....: 0.14	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H0G270112 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H0G280000-131 **Prep Batch #...:** 0210131						
Lead	ND	0.30	mg/kg	SW846 6010B	07/28/00	DH0E9101
		Dilution Factor: 1				
		Analysis Time..: 15:39				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H0G270112 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H0G280000-131 **Prep Batch #...:** 0210131							
Lead	50.0	48.3	mg/kg	97	SW846 6010B	07/28/00	DH0E9102
			Dilution Factor: 1				
			Analysis Time..: 15:44				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H0G270112 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H0G280000-131 **Prep Batch #...:** 0210131					
Lead	97	(80 - 120)	SW846 6010B	07/28/00	DH0E9102
		Dilution Factor: 1			
		Analysis Time..: 15:44			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

IT CORP - FT. MCCLELLAN

Client Sample ID: LH0008

General Chemistry

Lot-Sample #...: H0G270112-001 **Work Order #...:** DGW0F **Matrix.....:** SOLID
Date Sampled...: 07/26/00 **Date Received..:** 07/26/00
% Moisture.....: 8.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**8.1**	**0.10**	**%**	**MCAWW 160.3 MOD**	**07/27-07/28/00**	**0209528**

Dilution Factor: 1 MDL.....:

IT CORP - FT. MCCLELLAN

Client Sample ID: LH0009

General Chemistry

Lot-Sample #...: H0G270112-002 **Work Order #...:** DGW17 **Matrix.....:** SOLID
Date Sampled...: 07/26/00 **Date Received..:** 07/26/00
% Moisture.....: 8.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	8.3	0.10	%	MCAWW 160.3 MOD	07/27-07/28/00	0209528

Dilution Factor: 1 MDL.....:

IT CORP - FT. MCCLELLAN

Client Sample ID: LH8001

General Chemistry

Lot-Sample #...: H0G270112-003 Work Order #...: DGW1D Matrix.....: SOLID
Date Sampled...: 07/26/00 Date Received..: 07/26/00
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Paint Filter Test	NO		No Units	SW846 9095	07/28/00	0210428
		Dilution Factor: 1		MDL.....:		
Percent Moisture	13.9	0.10	%	MCAWW 160.3 MOD	07/27-07/28/00	0209528
		Dilution Factor: 1		MDL.....:		

SEVERN TRENT
Environmental Services

Sample Delivery Group Assignment Form

IT CORPORATION
FT McCLELLAN
UST 135

SDG# UST13501

*	DATE REC'D	LOT#	CLIENT ID	VOA 8021B	PAH 8310	PEST 8081A	EXP 8330	MET 6010B	PCB 8082	PH 9045	DRO 8015	GRO 8015	PAINT FILTER
1	7/26/00	H0G270112	LH0008	T	T			X					
2			LH0009	T	T			X					
3			LH8001					X			T	T	T
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

NC = NORTH CANTON
T = STL TAMPA
D= STL DENVER
WS = STL WEST SACRAMENTO
P = PITTSBURGH
IT = IT CORP KNOX

MATRIX: SOIL
ANALYTICAL DUE: 7-31-00
REPORT DUE: 8-7-00
CLOSED? YES

8/15/001:38 PM

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HOG710116

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 135-072600-QSK

Page 1 of 1

Project Number: 783149

Project Name: Fort McClellan, SAD TERC

Sample Coordinator: Oliver Allen

Turnaround Time: ~~II~~ 48 hour Turn

Samples Shipment Date: 26 JUL 2000

Lab Destination: Quanterra Environmental Services - Knoxville

Lab Contact: John Reynolds

Project Contact: Randy McBride

Carrier/Waybill No.: Quality Express/Courier

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions: 48 Hour Turnaround

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☑

Sample Disposal:
Return to Client ☐ Disposal by Lab ☑ Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7-26-00 Time: 1330	1. Received By (Signature/Affiliation)	Date: 7-26-00 Time: 13:30
2. Relinquished By (Signature/Affiliation)	Date: 7-26-00 Time: 18:20	2. Received By (Signature/Affiliation)	Date: 7-26-00 Time: 18:20
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: None

Recd Temp 2°C
DF 12 use Custody seals intact

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
LH0008	UST-135A1-CS06-CS-LH0008-REG	26 JUL 2000	09:00	8 oz CWM	1	None except cool to 4 C	Lead by 6010B	N		
LH0009	UST-135A1-CS07-CS-LH0009-REG	26 JUL 2000	08:45	8 oz CWM	1	None except cool to 4 C	Lead by 6010B	N		
LH8001	UST-135A1-SP01-SP-LH8001-REG	26 JUL 2000	08:30	8 oz CWM	1	None except cool to 4 C	Lead by 6010B	N		

HOG770112

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 135-072600-QST
Page 1 of 1

Project Number: 783149
Project Name: Fort McClellan, SAD TERC
Sample Coordinator: Oliver Allen
Turnaround Time: 48 hour Turn

Samples Shipment Date: 26 JUL 2000
Lab Destination: QUANTERRA - TAMPA
Lab Contact: Michelle Lersch
Project Contact: Randy McBride
Carrier/Waybill No.: FedEx/790866391164

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions: 48 hour turnaround

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☑

Sample Disposal:
Return to Client ☐ Disposal by Lab ☑ Archive (mos.)

1. Relinquished By (Signature/Affiliation) O.K.Lee	Date: 7-26-00 Time: 1530
1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:
2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:
3. Received By (Signature/Affiliation)	Date: Time:

Comments: None

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
LH0008	UST-135A1-CS06-CS-LH0008-REG	26 JUL 2000	09:00	8 oz CWM	1	None except cool to 4 C	PAH's by 8310	N		
LH0008	UST-135A1-CS06-CS-LH0008-REG	26 JUL 2000	09:00	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N		
LH0009	UST-135A1-CS07-CS-LH0009-REG	26 JUL 2000	08:45	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N		
LH0009	UST-135A1-CS07-CS-LH0009-REG	26 JUL 2000	08:45	8 oz CWM	1	None except cool to 4 C	PAH's by 8310	N		
LH8001	UST-135A1-SP01-SP-LH8001-REG	26 JUL 2000	08:30	8 oz CWM	1	None except cool to 4 C	Deisel Range Organics by 8015B	N		
LH8001	UST-135A1-SP01-SP-LH8001-REG	26 JUL 2000	08:30	5 g EnCore	1	None except cool to 4 C	Gasoline Range Organics by 8015B	N		
LH8001	UST-135A1-SP01-SP-LH8001-REG	26 JUL 2000	08:30	8 oz CWM	1	None except cool to 4 C	Paint Filter	N		

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IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 135-072600-QST

Page 1 of 1

Project Number: 783149
Project Name: Fort McClellan, SAD TERC
Sample Coordinator: Oliver Allen
Turnaround Time: 48 hour Turn

Samples Shipment Date: 26 JUL 2000
Lab Destination: QUANTERRA - TAMPA
Lab Contact: Michelle Lersch
Project Contact: Randy McBride
Carrier/Waybill No.: FedEx/790866391164

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions: 48 hour turnaround

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☐ Archive (mos.)

1. Relinquished By (Signature/Affiliation) O.K.Allen	Date: 7-26-00 Time: 1530	1. Received By (Signature/Affiliation) Carol McNulty	Date: 7/27/00 Time: 1000
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: None

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
LH0008	UST-135A1-CS06-CS-LH0008-REG	26 JUL 2000	09:00	8 oz CWM	1	None except cool to 4 C	PAH's by 8310	N		
LH0008	UST-135A1-CS06-CS-LH0008-REG	26 JUL 2000	09:00	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N		
LH0009	UST-135A1-CS07-CS-LH0009-REG	26 JUL 2000	08:45	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N		
LH0009	UST-135A1-CS07-CS-LH0009-REG	26 JUL 2000	08:45	8 oz CWM	1	None except cool to 4 C	PAH's by 8310	N		
LH8001	UST-135A1-SP01-SP-LH8001-REG	26 JUL 2000	08:30	8 oz CWM	1	None except cool to 4 C	Deisel Range Organics by 8015B	N		
LH8001	UST-135A1-SP01-SP-LH8001-REG	26 JUL 2000	08:30	5 g EnCore	3	None except cool to 4 C	Gasoline Range Organics by 8015B	N		
LH8001	UST-135A1-SP01-SP-LH8001-REG	26 JUL 2000	08:30	8 oz CWM	1	None except cool to 4 C	Paint Filter	N		

STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: IT Corp PROJECT: Ft McClellan Lot No.: HOG270112

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?			✓
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: David D. Flora DATE: 7.27.00

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 25476			
b. Informed Login associates of special instructions ? SDG# UST14003 FAX DUE 7/31	✓		
2. If custody seals were missing/not intact, was client notified?			✓

PROJECT MANAGER : [signature] DATE: 7/27/00

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

7/31
8/1

☐ Client informed on _____ by _____. Person contacted: _____.

☐ Noted actions in comments section above.

☐ No action necessary; process as is.

Project Manager: _____ Date: _____

STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other: _____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample received with < ½ holding time remaining
	4e Sample preservative: _____
	4f Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other: _____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other: _____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other: _____

Other (8): _____

_____

_____

_____

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKMP PROJECT: FTMC Lot No.: 460270112

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?			✓
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?	✓		
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?	✓		
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?	✓		
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: _____ DATE: 7/28/00